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UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/007,425	12/03/2001	Paul Anthony Powell	RPS920010064US1	3050

				EXAMINER
45503	7590	11/12/2004		CHEN, TSE W

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ART UNIT	PAPER NUMBER
2116	

DATE MAILED: 11/12/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	10/007,425	POWELL, PAUL ANTHONY
	Examiner	Art Unit
	Tse Chen	2116

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on _03 December 2001_.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
   closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) _1-25_ is/are pending in the application.

   4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) _1-5,7,9-13,15,17-21,23 and 25_ is/are rejected.

7)☒ Claim(s) _6,8,14,16,22 and 24_ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☒ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _28 February 2002_ is/are: a)☒ accepted or b)☐ objected to by the Examiner.

   Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

   Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   a)☐ All b)☐ Some * c)☐ None of:

   1.☐ Certified copies of the priority documents have been received.

   2.☐ Certified copies of the priority documents have been received in Application No. _____.

   3.☐ Copies of the certified copies of the priority documents have been received in this National Stage
      application from the International Bureau (PCT Rule 17.2(a)).

   * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892) /

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
   Paper No(s)/Mail Date _12032001_. ₀

4)☐ Interview Summary (PTO-413)
   Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

DETAILED ACTION

Information Disclosure Statement

1.   The information disclosure statement (IDS) submitted on December 3, 2001 was filed

before the mailing date of the first Office Action. The submission is in compliance with the

provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being

considered by the examiner.

Claim Objections

2.   Claims 1, 9-10, 17-18, 25 are objected to because of the following informalities:

- As per claims 1, 10, and 18, a "second symlink file" was defined without a preceding
  "first symlink file".

- As per claim 9, 17, and 25, "said first symlink file" should be "a first symlink file" as
  there is no established antecedent.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

3.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in
> section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are
> such that the subject matter as a whole would have been obvious at the time the invention was made to a person
> having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the
> manner in which the invention was made.

4.   Claims 1-5, 7, 9-13, 15, 17-21, 23 and 25 are rejected under 35 U.S.C. 103(a) as being

unpatentable over Jollands, US Patent 6292941, in view of Sakarda, US Patent 6189050.

5.   In re claim 1, Jollands discloses a system [fig.1] for enabling selection of appropriate,

available resources for a hardware component [customized configurations] of a data processing

system [computer] during system boot via a read only medium [cdrom] [col.1, 11.4-21; col.1, 1.63

– col.2, 1.20], said system comprising:

- Means for dynamically setting an object of a second symlink file [model; col.6, 11.9-15]

  to a particular resource [customized configuration; col.4, 11.14-29] required for a correct

  operation of said type of said hardware component [col.2, 11.1-59].

- Means for triggering the activation of said second symlink file [col.5, 1.66 – col.6, 1.27;

  execute autoinstall scripts].

- Means, responsive to said triggering step, for selecting, via said second symlink file, a

  resource [e.g., files, target addresses, etc.] that corresponds to said object of said second

  symlink file from among multiple available resources located on said read only medium

  [col.1, 11.9-21, col.2, 11.1-59; cdrom's standard configuration contains files that are to be

  activated or removed based on configuration].

- Means for implementing [installing and running of files] said selected resource to support

  said hardware component during operation of said data processing system [col.2, 11.1-59].

6.   Jollands did not disclose explicitly the detection of hardware components.

7.   Sakarda discloses a system for enabling selection of appropriate, available resources

[device drivers] for a hardware component [e.g., cdrom drive] of a data processing system

[computer system 100] [col.2, 11.38-65], said system comprising:

- Means for detecting a type of said hardware component [device] [col.5, 11.34-48].

- Means, responsive to said detecting step, for dynamically setting an object of a second

  symlink file to a particular resource [device driver] required for a correct operation of

said type of said hardware component [col.5, l.62 – col.6, l.34; establish symbolic links from device drivers to file system with fdos].

- Means for triggering the activation of said second symlink file [col.5, l.62 – col.6, l.34; signal establishment of symbolic link].

- Means for implementing said selected resource to support said hardware component during operation of said data processing system [col.5, l.62 – col.6, l.34; load device drivers and set symbolic links].

8.   It would have been obvious to one of ordinary skill in the art, having the teachings of Jollands and Sakarda before him at the time the invention was made, to modify the system taught by Jollands to include the means for detecting a type of said hardware component taught by Sakarda, in order to obtain the system comprising means for detecting a type of said hardware component and means, responsive to said detecting step, for dynamically setting an object of a second symlink file to a particular resource required for a correct operation of said type of said hardware component. One of ordinary skill in the art would have been motivated to make such a combination as it provides an efficient and dynamic way to add new required devices for different operations [Sakarda: col.2, ll.38-54].

9.   As to claim 2, Jollands discloses the system comprising:

- Means for first initiating a boot process from said read only medium [cdrom] on said data processing system [col.1, ll.9-21].

- Wherein said second symlink file [model] is provided with the capability to receive a trigger [invoke script via name] and respond to the receipt of said trigger by pointing to a particular resource file [selecting a particular resource file for removal or activation

inherently involves pointing] on said read only medium that supports said hardware component [col.1, ll.9-21; col.2, ll.1-59].

10.   Jollands did not discuss the details of creating the second symlink file. Sakarda discloses:

- Means for creating said second symlink file on a RAM [file system 501] of said data processing system subsequent to said detecting step [symbolic link to device driver appears as fdo in file system], wherein said second symlink file is provided with the capability to receive a trigger [signal fdo in file system] and respond to the receipt of said trigger by pointing to a particular resource file [device driver] that supports said hardware component [device] [col.5, l.62 – col.6, l.34].

11.   It would have been obvious to one of ordinary skill in the art, having the teachings of Jollands and Sakarda before him at the time the invention was made, to modify the system taught by Jollands to include the means for creating the second symlink file on a RAM taught by Sakarda, in order to obtain the system comprising means for creating said second symlink file on a RAM of said data processing system subsequent to said detecting step, wherein said second symlink file is provided with the capability to receive a trigger and respond to the receipt of said trigger by pointing to a particular resource file on said read only medium that supports said hardware component. One of ordinary skill in the art would have been motivated to make such a combination as it provides an efficient and dynamic way to add new required devices for different operations [Sakarda: col.2, ll.38-54].

12.   As to claim 3, Jollands and Sakarda disclose each and every limitation of the claim as discussed above in reference to claim 2. Jollands and Sakarda did not disclose explicitly that a first symlink file on the read only medium was used to invoke the second symlink file.

13.   The Examiner hereby takes Official Notice that it is well known in the art to include

means for executing a first symlink file on a read only medium, wherein the first symlink file has

the second symlink file as its object.

14.   It would have been obvious to one of ordinary skill in the art, having the teachings of

Jollands and Sakarda before him at the time the invention was made, to include the well known

means for executing a first symlink file on a read only medium, wherein the first symlink file has

the second symlink file as its object with the system of Jollands and Sakarda. One of ordinary

skill in the art would have been motivated to make such a combination as it provides an efficient

and dynamic way to add new required devices for different operations [Sakarda: col.2, ll.38-54].

15.   As to claim 4, Jollands discloses the system wherein said hardware component is a video

driver [video interface 46 to display 48] [col.4, ll.14-29].

16.   As to claim 5, Jollands and Sakarda disclose each and every limitation of the claim as

discussed above in reference to claim 4. Jollands and Sakarda did not disclose explicitly that the

resource is an XServer.

17.   The Examiner hereby takes Official Notice that it is well known in the art to use XServer

as a resource for video drivers.

18.   It would have been obvious to one of ordinary skill in the art, having the teachings of

Jollands and Sakarda before him at the time the invention was made, to include the well known

XServer for the resource of Jollands and Sakarda. One of ordinary skill in the art would have

been motivated to make such a combination as it provides a way to run the interface [46] to a

display [48] [Jollands: col.4, ll.14-29].

19.   As to claim 7, Jollands discloses the system wherein said resource is a configuration file,

and said selecting means selects a particular configuration file from among a plurality of

configuration files located on said read only medium, wherein a selected configuration file is a

preferred configuration file for said type of said hardware component [col.1, ll.9-21; col.2, ll.1-

59; customized configurations denote a plurality of configuration files of which a preferred is

selected based on model; developers deliver multiple configurations files on cdrom based on

preliminary tests to get right look and feel to save on-site configuration work].

20.   As to claim 9, Jollands and Sakarda disclose each and every limitation as discussed above

in reference to claim 3.

21.   In re claim 10, Jollands discloses a computer program product [abstract] comprising:

A computer readable medium [cdrom].

Program code on said computer readable medium for enabling selection of appropriate, available

resources for a hardware component of a data processing system [computer] during system boot

via a read only medium [col.1, ll.9-21; customize installation], said program code comprising

code for:

- Dynamically setting an object of a second symlink file [model; col.6, ll.9-15] to a

  particular resource [customized configuration; col.4, ll.14-29] required for a correct

  operation of said type of said hardware component [col.2, ll.1-59].

- Triggering the activation of said second symlink file [col.5, l.66 – col.6, l.27; execute

  autoinstall scripts].

- Responsive to said triggering step, selecting, via said second symlink file, a resource

  [e.g., files, target addresses, etc.] that corresponds to said object of said second symlink

file from among multiple available resources located on said read only medium [col.1,

ll.9-21, col.2, ll.1-59; cdrom's standard configuration contains files that are to be

activated or removed based on configuration].

- Implementing [installing and running of files] said selected resource to support said

    hardware component during operation of said data processing system [col.2, ll.1-59].

22.   Jollands did not disclose explicitly the detection of hardware components.

23.   Sakarda discloses program code [method in code] for enabling selection of appropriate,

available resources [device drivers] for a hardware component [e.g., cdrom drive] of a data

processing system [computer system 100] [col.2, ll.38-65], said program code comprising code

for:

- Detecting a type of said hardware component [device] [col.5, ll.34-48].

- Responsive to said detecting step, dynamically setting an object of a second symlink file

    to a particular resource [device driver] required for a correct operation of said type of said

    hardware component [col.5, l.62 – col.6, l.34; establish symbolic links from device

    drivers to file system with fdos].

- Triggering the activation of said second symlink file [col.5, l.62 – col.6, l.34; signal

    establishment of symbolic link].

- Implementing said selected resource to support said hardware component during

    operation of said data processing system [col.5, l.62 – col.6, l.34; load device drivers and

    set symbolic links].

24.   It would have been obvious to one of ordinary skill in the art, having the teachings of

Jollands and Sakarda before him at the time the invention was made, to modify the computer

program product taught by Jollands to include the code for detecting a type of said hardware

component taught by Sakarda, in order to obtain the computer program product comprising

program code comprising code for detecting a type of said hardware component and code,

responsive to said detecting step, for dynamically setting an object of a second symlink file to a

particular resource required for a correct operation of said type of said hardware component. One

of ordinary skill in the art would have been motivated to make such a combination as it provides

an efficient and dynamic way to add new required devices for different operations [Sakarda:

col.2, ll.38-54].

25.   As to claim 11, Jollands and Sakarda disclose each and every limitation as discussed

above in reference to claims 2 and 10.

26.   As to claim 12, Jollands and Sakarda disclose each and every limitation as discussed

above in reference to claims 3 and 10.

27.   As to claim 13, Jollands and Sakarda disclose each and every limitation as discussed

above in reference to claims 5 and 10.

28.   As to claim 15, Jollands and Sakarda disclose each and every limitation as discussed

above in reference to claims 7 and 10.

29.   As to claim 17, Jollands and Sakarda disclose each and every limitation as discussed

above in reference to claims 9 and 10.

30.   In re claim 18, Jollands and Sarkada disclose each and every limitation as discussed

above in reference to claim 1: Jollands and Sarkada taught the system; therefore, Jollands and

Sarkada taught method of operating the system.

31.   As to claim 19, Jollands and Sakarda disclose each and every limitation as discussed

above in reference to claims 2 and 18.

32.   As to claim 20, Jollands and Sakarda disclose each and every limitation as discussed

above in reference to claims 3 and 18.

33.   As to claim 21, Jollands and Sakarda disclose each and every limitation as discussed

above in reference to claims 5 and 18.

34.   As to claim 23, Jollands and Sakarda disclose each and every limitation as discussed

above in reference to claims 7 and 18.

35.   As to claim 25, Jollands and Sakarda disclose each and every limitation as discussed

above in reference to claims 9 and 18.

Allowable Subject Matter

36.   Claims 6, 8, 14, 16, 22, and 24 are objected to as being dependent upon a rejected base

claim, but would be allowable if rewritten in independent form including all of the limitations of

the base claim and any intervening claims.

37.   The following is a statement of reasons for the indication of allowable subject matter: the

claims are allowable because none of the references cited, either alone or in combination

discloses or renders obvious a system, computer program product, or method with all the

limitations including those of the associated base and intervening claims.

Conclusion

38.   The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. The additionally cited U.S. patent documents describe various methods and systems

related to booting and configuration setting as well as other well known concepts in the art.
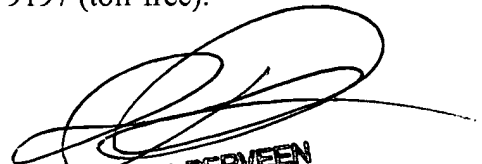
Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tse Chen whose telephone number is (571) 272-3672. The

examiner can normally be reached on Monday - Friday 9AM - 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Lynne Browne can be reached on (571) 272-3670. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

REHANA PERVEEN
PRIMARY EXAMINER

Tse Chen
November 2, 2004